

# SEQUENCE LISTING

<110> Dyax Corp.  
 Beltzer, James P.  
 Potter, M. Daniel  
 Fleming, Tony J.  
 Ladner, Robert Charles

<120> BINDING POLYPEPTIDES FOR B LYMPHOCYTE STIMULATOR PROTEIN (BLyS)

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<140> not yet assigned  
 <141> 2001-08-17

<160> 458

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Ala Met Lys Cys Tyr Phe Pro Trp Glu Cys Ala Asn Gly  
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Glu Asn Val Ala Cys Tyr Phe Pro Trp Glu Cys His His Pro  
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Ser Val Asn Cys Trp Phe Pro Trp Glu Cys Val Gly Asn  
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<400> 33



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Asp Gly Cys Asp Glu Leu Thr Lys Ile Cys Gly Met Lys  
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Glu Val Phe Cys Asp Val Leu Thr Lys Val Cys Phe His Asp

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Thr Gln His Cys Asp Val Leu Thr Lys Gln Cys Phe Thr Ile  
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Gly His Phe Cys Asp Arg Leu Thr Lys Tyr Cys Phe Glu Pro  
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Ile Lys Ala Cys Asp Ile Leu Thr Lys Val Cys Trp Pro Pro  
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Gln Phe Asp Cys Asp Pro Leu Thr Lys Tyr Cys Gly Glu Phe  
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<400> 48

Lys Met Tyr Cys Asp His Leu Thr Gly Tyr Cys Trp Pro Glu  
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Met Gln Ser Cys Asp Ile Leu Thr Gly Tyr Cys Phe Lys Arg  
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<400> 51

Ser Val Arg Cys Asp Leu Leu Thr Gly Trp Cys Pro Val Trp  
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<400> 52

Pro Ala Asp Cys Asp Pro Leu Thr Asn Ile Cys Phe Trp Lys  
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Thr Asn Val Cys Asp Pro Leu Thr Asn Val Cys Phe Met Asn  
1 5 10

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<400> 54

Glu His Trp Cys Asp Asp Leu Thr His Leu Cys Phe Arg Leu  
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<400> 55

Gly Tyr Trp Cys Asp Val Leu Thr Asn Asn Cys Trp Lys Ile  
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<210> 56  
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<400> 56

Leu Tyr Asn Cys Asp Tyr Leu Thr Arg Leu Cys Phe Glu Pro  
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<210> 57  
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His Val Asp Cys Leu Leu His Pro Lys Ala Cys Tyr Lys Tyr  
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<210> 58

<211> 14  
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<400> 58

Val Gln Asp Cys Leu Leu His Pro Lys Ala Cys Gln Met Gln  
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Lys Phe Asp Cys Leu Leu Lys Pro Met Phe Cys Ser Asn His  
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Phe Ala Asp Cys Leu Ile His Pro Lys Ser Cys Lys Pro Leu  
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His Gly Asn Cys Tyr Pro Phe Pro Trp Glu Cys Glu Ser Lys  
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<400> 62

Met Ile Ile Val Leu Leu Leu Leu Arg Phe Ala Ile Ser Arg  
1 5 10

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<400> 64

Phe His Pro Cys Asp Met Leu Thr Gly Ile Trp Cys Gln Pro Asn  
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Ser Lys Arg Cys Asp Leu Leu Thr Lys Met Trp Cys Glu Thr Glu  
1 5 10 15

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Thr	Lys	Phe	Cys	Asp	Arg	Leu	Thr	Met	Pro	Lys	Cys	Val	Trp	Lys
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<400> 67

Asn	Thr	Phe	Cys	Pro	Asp	Pro	Leu	Thr	Gly	Arg	Cys	Val	Asn	Pro
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<210> 68

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<400> 68

Asp	Trp	Thr	Cys	Asp	Pro	Leu	Phe	His	Arg	Glu	Cys	Ile	Phe	Glu
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<210> 69

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<400> 69

Pro	Gln	Pro	Cys	Asp	Leu	Leu	Phe	Glu	Lys	Lys	Cys	Ser	Ile	Lys
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<400> 70

Arg	Trp	His	Cys	Asp	Met	Leu	Ile	Asn	Pro	Ser	Cys	Leu	Pro	Asp
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<210> 71

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<400> 71

Lys	Ile	Gln	Cys	Asp	Ile	Val	Asn	Leu	Ser	Ser	Cys	Val	Tyr	Pro
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<400> 72

Leu	Asn	Ala	Cys	Asp	Ile	Val	His	Pro	Asn	Tyr	Cys	Ser	Gly	Met
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<400> 73

Ala	Lys	Ala	Cys	Ser	Ile	Val	Asn	Leu	Glu	Ser	Cys	Glu	Tyr	Leu
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<400> 74

Arg	Gln	Ala	Cys	Ser	Ile	Ile	Thr	Pro	Trp	Gly	Cys	Pro	Ile	Pro
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<210> 75

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<400> 75

Ala	Asp	Asn	Cys	Thr	Val	Ala	Thr	Leu	Asp	Phe	Cys	Tyr	Trp	Thr
1				5					10					15

<210> 76

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<400> 76

Lys	Pro	Glu	Cys	Asn	Ile	Thr	Lys	Pro	Gln	Phe	Cys	Phe	Gly	Glu
1				5					10					15

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<400> 77

Asn	Asn	Cys	Gln	Trp	Asp	Glu	Leu	Thr	Ser	Met	Cys	Asp	Pro	Phe
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<210> 78

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<400> 78

Ser Arg Leu Cys His Met Asp Glu Leu Thr His Val Cys Val His Phe  
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<210> 79

<211> 16

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<223> BLYS binding polypeptide

<400> 79

Ser Arg Pro Cys Gln Ile Asp Glu Leu Thr Lys Ala Cys Phe Tyr Asn  
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<210> 80

<211> 16

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Asp Arg Val Cys Lys Leu Asp Phe Leu Thr Tyr Asn Cys Leu Asn His  
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<211> 16

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<400> 81

His Ser Asn Cys Ile Met Asp Leu Leu Thr Asn Arg Cys Phe Tyr Asp  
1 5 10 15

<210> 82

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

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<400> 82

Pro Phe Asn Cys Phe His Asp Pro Leu Thr Gly Leu Cys Leu His Ser  
1 5 10 15

<210> 83

<211> 16

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<220>

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<400> 83

Tyr Asp Ser Cys Thr Tyr Asp Arg Leu Thr Lys Gln Cys Tyr Pro Ser  
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<210> 84

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<400> 84

Phe His Asp Cys Met Tyr Asp Ala Leu Leu Gly Tyr Cys Leu Pro Tyr  
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<210> 85

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<400> 85

Asn Arg Ser Cys Asp Pro Leu Thr Arg Pro Lys Ser Cys Gly Leu  
1 5 10 15

<210> 86

<211> 16

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<400> 86

Leu Ser Asn Cys Asp Trp Asp Asp Leu Ile Arg Gln Cys Leu His Asp  
1 5 10 15

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Phe Trp Asp Cys Leu Phe His Pro Asn Ser Arg Tyr Cys Val Leu Ser  
1 5 10 15

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<400> 88

Ser Arg Asp Cys Leu Leu Ser Pro Ala Met Ala Trp Cys Gly Leu Asp  
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<210> 89

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<400> 89

Gly Gly Asn Cys Tyr Thr Asp Ser Leu Thr Lys Leu His Phe Cys Met  
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Gly Asp

<210> 90

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Met Cys Pro Arg Asp Pro Leu Thr Lys Ala Lys Leu Cys Asn Trp His  
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Pro Asn Gln Cys Gln Asp Asp Leu Thr Lys Gln Trp Tyr Ser Cys His  
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Tyr His

<210> 92  
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Phe Asp Met Cys Phe Asp Ala Leu Thr Lys Gln Asn Phe Tyr Cys Arg  
1 5 10 15

Phe His

<210> 93  
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<220>  
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<400> 93

Arg Asn Met Cys Val Asp Arg Leu Thr Lys Leu Gln His Gly Cys Glu  
1 5 10 15



Gly Ala

<210> 94  
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<400> 94

Asp	Pro	Glu	Cys	Leu	Thr	Ser	Phe	Asp	Arg	Leu	Thr	Lys	Met	Cys	Trp
1			5					10						15	

Pro Trp

<210> 95  
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<400> 95

Asp	Asp	Glu	Cys	His	Tyr	Asp	Tyr	Leu	Thr	His	Tyr	Met	Arg	Cys	Asp
1			5					10						15	

Tyr Arg

<210> 96  
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<400> 96

Phe	Gly	Gly	Cys	Asn	Ile	Asp	Leu	Leu	Thr	Asn	Thr	Met	Met	Cys	His
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Arg Asn

<210> 97  
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<400> 97

His	Gly	Pro	Cys	Tyr	Trp	Asp	Glu	Leu	Thr	Met	Gln	Trp	His	Cys	Asn
1				5					10					15	

His His

<210> 98  
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<220>  
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<400> 98

Gly	Ala	Met	Cys	Val	Asp	Leu	Leu	Thr	Tyr	Thr	Phe	Arg	Pro	Cys	Met
1				5					10					15	

Tyr Ala

<210> 99  
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<220>  
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<400> 99

Ser	Asn	Lys	Cys	Trp	Asp	Glu	Leu	Thr	His	Ala	Trp	Ala	Glu	Cys	Gly
1				5					10					15	

Arg Phe

<210> 100  
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<220>  
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<400> 100

Arg Pro Val Cys Tyr Lys Gly Tyr Asp Ile Leu Thr Thr Gln Cys Met  
1 5 10 15

Pro Trp

<210> 101  
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<212> PRT  
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<220>  
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<400> 101

Pro Ser Arg Cys Trp Phe Asp Leu Leu Phe Asn Lys Phe Val Cys Lys  
1 5 10 15

Arg Asn

<210> 102  
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<220>  
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<400> 102

Arg Ser Gly Cys Val Tyr Asp Met Leu Leu Met Thr Met Tyr Cys Pro  
1 5 10 15

Ser Asn

<210> 103  
<211> 18  
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<220>

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<400> 103

Ser	Asn	Arg	Cys	Glu	Gly	Asp	Gln	Leu	Met	Arg	Pro	Pro	Ser	Cys	Arg
1				5					10					15	

His Leu

<210> 104

<211> 18

<212> PRT

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<400> 104

Tyr	Arg	Met	Cys	Trp	Trp	Asp	Asp	Leu	Leu	Arg	Gly	Phe	Val	Cys	Asp
1				5					10					15	

Phe His

<210> 105

<211> 18

<212> PRT

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<400> 105

His	Asp	Gly	Cys	Tyr	Asp	Glu	Leu	Leu	Tyr	Arg	Trp	Thr	Arg	Cys	Glu
1				5					10					15	

His Arg

<210> 106

<211> 18

<212> PRT

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<400> 106

Trp Ala Trp Cys Phe Asp Glu Leu Val Gln Arg Tyr Phe Thr Cys Phe  
1 5 10 15

Asp His

<210> 107

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

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<400> 107

Leu Pro Glu Cys Arg Gln Tyr Phe Pro Trp Glu Lys Gln Val Cys Ser  
1 5 10 15

Tyr Trp

<210> 108

<211> 12

<212> PRT

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<220>

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<400> 108

Val His Tyr Asp Ser Leu Thr Lys Met Trp Thr Arg  
1 5 10

<210> 109

<211> 12

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<220>

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<400> 109

Phe Thr Asp Pro Leu Thr Lys Met Ser Leu His Ser  
1 5 10

<210> 110  
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<400> 110

Gly Tyr Asp Val Leu Thr Lys Leu Tyr Phe Val Pro  
1 5 10

<210> 111  
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<400> 111

Tyr Tyr Asp Arg Leu Thr Lys Leu Tyr Ser Ser Met  
1 5 10

<210> 112  
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<400> 112

Leu Xaa Lys Asp Pro Leu Thr Lys Leu Tyr Ile Ser  
1 5 10

<210> 113  
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<400> 113

Gly Tyr Asp Val Leu Thr Lys Leu Xaa Phe Val Pro  
1 5 10

<210> 114  
<211> 12  
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<220>  
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<400> 114

Arg Leu Tyr Asp Pro Leu Thr Lys Leu Val Leu Ser  
1 5 10

<210> 115  
<211> 12  
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<400> 115

Met Phe Asp Pro Leu Thr Lys Ile Ala Phe Pro Ala  
1 5 10

<210> 116  
<211> 12  
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<220>  
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<400> 116

Phe Tyr Asp Ser Leu Thr Lys Thr Asn Leu Arg Asp  
1 5 10

<210> 117  
<211> 12  
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<220>

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<400> 117

Gly Ile Tyr Asp Lys Leu Thr Arg Ala Trp Leu Pro  
1 5 10

<210> 118

<211> 12

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<223> X is unknown

<400> 118

Lys Tyr Asp Pro Leu Thr Arg Ala Arg Xaa Pro Leu  
1 5 10

<210> 119

<211> 12

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<400> 119

Tyr Ile Asp Gln Leu Thr Arg Leu Ser Leu Pro Ser  
1 5 10

<210> 120

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<400> 120

His Gln Thr Phe Asp Ile Leu Thr Arg Leu His Phe  
1 5 10



<210> 121  
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<400> 121

Trp Gln Phe Asp Val Leu Thr Arg Ser Trp Thr Pro  
1 5 10

<210> 122  
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<400> 122

Gly Ala Ala Tyr Asp His Leu Thr Arg Thr Trp Leu  
1 5 10

<210> 123  
<211> 12  
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<400> 123

Tyr Phe Asp Gln Leu Thr His Leu Ser Ile Lys Lys  
1 5 10

<210> 124  
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<400> 124

Ala Trp Asp Pro Leu Thr Met Leu Val Leu Pro Trp  
1 5 10

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<400> 125

Ala	Leu	Trp	Met	Asp	Pro	Leu	Thr	Gly	Leu	Ala	Phe
1				5					10		

<210> 126  
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<400> 126

Trp	Gln	Phe	Asp	Val	Leu	Thr	Xaa	Ser	Trp	Thr	Pro
1				5					10		

<210> 127  
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<400> 127

Trp	Thr	Asp	Pro	Leu	Thr	His	Met	Glu	Ile	Tyr	His
1				5					10		

<210> 128  
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<400> 128

Trp Thr Asp Ser Leu Thr Gly Leu Trp Phe Pro Asp  
1 5 10

<210> 129

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<223> X is unknown

<400> 129

Tyr Thr Asp Pro Leu Thr Gly Ile Val Xaa Pro Phe  
1 5 10

<210> 130

<211> 12

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<400> 130

Tyr Trp Asp Lys Leu Thr Met Leu His Leu Gly Val  
1 5 10

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<400> 131

Tyr Tyr Asp Phe Leu Thr Arg Thr Val Leu Pro Ser  
1 5 10

<210> 132

<211> 12

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<400> 132

Arg Leu Asp Pro Leu Ser Lys Asn Asp Phe Pro Arg  
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<210> 133

<211> 12

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<223> X is unknown

<400> 133

Leu Arg Tyr Asp Pro Leu Leu Lys Ser Xaa Ile Tyr  
1 5 10

<210> 134

<211> 12

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<400> 134

Leu Arg Tyr Asp Pro Leu Leu Lys Ser Tyr Ile Tyr  
1 5 10

<210> 135

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<400> 135

Tyr Phe Asp Gln Phe Thr His Leu Ser Ile Lys Lys  
1 5 10

<210> 136  
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<400> 136

Tyr Phe Asp Gln Xaa Thr His Leu Ser Ile Lys Lys  
1 5 10

<210> 137  
<211> 13  
<212> PRT  
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<220>  
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<400> 137

Glu His Tyr Tyr Thr Asp Pro Leu Thr Gly Ala Arg Ile  
1 5 10

<210> 138  
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<400> 138

Glu His Tyr Xaa Thr Asp Pro Leu Thr Gly Ala Arg Ile  
1 5 10

<210> 139

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<400> 139

Glu His Tyr Ser Thr Asp Pro Leu Thr Gly Ala Arg Ile  
1 5 10

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<400> 140

Glu His Tyr Tyr Thr Asp Pro Leu Xaa Gly Xaa Arg Ile  
1 5 10

<210> 141  
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<400> 141

Glu His Tyr Tyr Thr Asp Pro Leu Xaa Gly Xaa Arg Xaa  
 1 5 10

<210> 142  
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<400> 142

Glu His Tyr Tyr Thr Asp Pro Leu Xaa Gly Ala Arg Xaa  
 1 5 10

<210> 143  
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<400> 143

Glu His Xaa Tyr Thr Asp Pro Leu Asn Gly Ala Arg Xaa  
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<210> 144

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Glu His Tyr Tyr Asn Asp Pro Leu Asn Gly Ala Arg Xaa  
1 5 10

<210> 145

<211> 13

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<400> 145



Xaa His Xaa Tyr Asn Asp Pro Leu Asn Gly Ala Arg Xaa  
1 5 10

<210> 146  
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<400> 146

Lys Pro Tyr Tyr Asp Pro Ile Thr Lys Met Thr His His  
1 5 10

<210> 147  
<211> 13  
<212> PRT  
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<400> 147

Lys Pro Tyr Tyr Asp Pro Ile Thr Lys Met Ser His His  
1 5 10

<210> 148  
<211> 13  
<212> PRT  
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<220>  
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<400> 148

Lys Pro Tyr Tyr Asp Pro Ile Ser Lys Met Thr His His  
1 5 10

<210> 149  
<211> 13  
<212> PRT  
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<220>  
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<223> X is unknown

<400> 149

Lys Pro Xaa Xaa Asp Pro Ile Ser Lys Met Thr His His  
1 5 10

<210> 150

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

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<400> 150

Gln Ile Gly Tyr Asp Glu Leu Thr Lys Ala Trp Val Thr  
1 5 10

<210> 151

<211> 13

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<220>

<223> BLYS binding polypeptide

<400> 151

Gln Leu Gly Tyr Asp Glu Leu Thr Lys Ala Trp Val Thr  
1 5 10

<210> 152

<211> 13

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<222> (6)..(6)

<223> X is unknown

<400> 152

Lys Ile Asp Glu Leu Xaa Met Gln Asn Ile Ile Ile Trp  
1 5 10

<210> 153  
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<220>  
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<400> 153

Asp His Thr Asp Pro Leu Ile Gln Gly Leu Thr Lys Arg  
1 5 10

<210> 154  
<211> 13  
<212> PRT  
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<400> 154

Trp His Asp Pro Leu Lys His Met His Phe His His Glu  
1 5 10

<210> 155  
<211> 13  
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<220>  
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<400> 155

Lys His Ile Asp Met Glu Thr Gly Leu Ile Leu Gln Asn  
1 5 10

<210> 156  
<211> 13  
<212> PRT  
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<400> 156

Met Gln Val Asp Pro Glu Thr Gly Leu Lys Tyr Glu His  
1 5 10

<210> 157

<211> 13  
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<400> 157

Xaa Leu Asp Gln His Val Asn Xaa Xaa Xaa Tyr Gln Ser  
1 5 10

<210> 158  
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<222> (6)..(7)  
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<222> (13)..(13)  
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<400> 158

Glu Xaa Xaa Xaa Thr Xaa Xaa Leu Thr Gly Ala Arg Xaa  
1 5 10

<210> 159  
<211> 13  
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<222> (13)..(13)  
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<400> 159

Gly Pro Tyr Asn Ile Xaa Arg Leu Xaa Gly Glu Arg Xaa  
1 5 10

<210> 160  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 160

His Ile Lys Met Leu His Gln Gly Ser Phe Val Gly Val  
1 5 10

<210> 161  
<211> 13  
<212> PRT  
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<400> 161

His Pro Thr Asn Thr Xaa Xaa His Gln Xaa Val Tyr Ser  
1 5 10

<210> 162

<211> 13

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<222> (13)..(13)

<223> X is unknown

<400> 162

His Arg Gly Gln Val Xaa Xaa Leu Asn Gly Met Val Xaa  
1 5 10

<210> 163

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 163

Ala Gly Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly  
 1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys  
 20

<210> 164  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BLYS binding polypeptide

<400> 164

Ala Gly Val Pro Phe Cys Asp Leu Leu Thr Lys His Cys Phe Glu Ala  
 1 5 10 15

Gly Pro Gly Pro Glu Gly Gly Gly Lys  
 20 25

<210> 165  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BLYS binding polypeptide

<400> 165

Gly Ser Ser Arg Leu Cys His Met Asp Glu Leu Thr His Val Cys Val  
 1 5 10 15

His Phe Ala Pro Pro Gly Pro Glu Gly Gly Gly Lys  
 20 25

<210> 166  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BLYS binding polypeptide

<400> 166

Gly Asp Gly Gly Asn Cys Tyr Thr Asp Ser Leu Thr Lys Leu His Phe  
 1 5 10 15

Cys Met Gly Asp Glu Pro Gly Pro Glu Gly Gly Gly Lys  
20 25

<210> 167  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 167

Gly Tyr Asp Val Leu Thr Lys Leu Tyr Phe Val Pro Gly Gly Pro Gly  
1 5 10 15

Pro Glu Gly Gly Gly Lys  
20

<210> 168  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 168

Trp Thr Asp Ser Leu Thr Gly Leu Trp Phe Pro Asp Gly Gly Pro Gly  
1 5 10 15

Pro Glu Gly Gly Gly Lys  
20

<210> 169  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> modified BLYS binding polypeptide

<400> 169

Ala Gly Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly  
1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys  
20



<210> 170  
<211> 24  
<212> PRT  
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<220>  
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<400> 170

Ala Gly Arg Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly  
1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys  
20

<210> 171  
<211> 24  
<212> PRT  
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<220>  
<223> modified BLYS binding polypeptide

<400> 171

Ala Gly Gln Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly  
1 5 10 15

Pro Gly Pro Glu Gly Gly Gly Lys  
20

<210> 172  
<211> 25  
<212> PRT  
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<220>  
<223> modified BLYS binding polypeptide

<220>  
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<222> (4)..(4)  
<223> X is norleucine

<400> 172

Ala Gly Asn Xaa Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser  
1 5 10 15

Gly Pro Gly Pro Glu Gly Gly Gly Lys  
20 25

<210> 173  
<211> 285  
<212> PRT  
<213> Homo Sapiens

<400> 173

Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu  
1 5 10 15

Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro  
20 25 30

Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu  
35 40 45

Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val  
50 55 60

Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg  
65 70 75 80

Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly  
85 90 95

Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu  
100 105 110

Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn  
115 120 125

Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Val Thr Gln  
130 135 140

Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys  
145 150 155 160

Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser  
165 170 175

Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr

180

185

190

Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met  
195 200 205

Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu  
210 215 220

Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu  
225 230 235 240

Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly  
245 250 255

Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu  
260 265 270

Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu  
275 280 285

<210> 174  
<211> 266  
<212> PRT  
<213> Homo Sapiens

<400> 174

Met Asp Asp Ser Thr Glu Arg Glu Gln Ser Arg Leu Thr Ser Cys Leu  
1 5 10 15

Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro  
20 25 30

Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu  
35 40 45

Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val  
50 55 60

Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg  
65 70 75 80

Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly  
85 90 95

Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu  
100 105 110

Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn  
115 120 125

Ser Arg Asn Lys Arg Ala Val Gln Gly Pro Glu Glu Thr Gly Ser Tyr  
130 135 140

Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu Glu  
145 150 155 160

Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe Ile  
165 170 175

Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His Leu  
180 185 190

Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu Val  
195 200 205

Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn Asn  
210 215 220

Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu Leu  
225 230 235 240

Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp  
245 250 255

Val Thr Phe Phe Gly Ala Leu Lys Leu Leu  
260 265

<210> 175  
<211> 309  
<212> PRT  
<213> mouse

<400> 175

Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys  
1 5 10 15

Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro

20

25

30

Gln Lys Glu Glu Gly Ala Trp Phe Gly Ile Cys Arg Asp Gly Arg Leu  
 35 40 45

Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Ser Ser Phe Thr Ala  
 50 55 60

Met Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu  
 65 70 75 80

Arg Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala  
 85 90 95

Gly Ala Pro Glu Leu Thr Ala Gly Val Lys Leu Leu Thr Pro Ala Ala  
 100 105 110

Pro Arg Pro His Asn Ser Ser Arg Gly His Arg Asn Arg Arg Ala Phe  
 115 120 125

Gln Gly Pro Glu Glu Thr Glu Gln Asp Val Asp Leu Ser Ala Pro Pro  
 130 135 140

Ala Pro Cys Leu Pro Gly Cys Arg His Ser Gln His Asp Asp Asn Gly  
 145 150 155 160

Met Asn Leu Arg Asn Ile Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp  
 165 170 175

Ser Asp Thr Pro Thr Ile Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp  
 180 185 190

Leu Leu Ser Phe Lys Arg Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys  
 195 200 205

Ile Val Val Arg Gln Thr Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu  
 210 215 220

Tyr Thr Asp Pro Ile Phe Ala Met Gly His Val Ile Gln Arg Lys Lys  
 225 230 235 240

Val His Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys  
 245 250 255

Ile Gln Asn Met Pro Lys Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala  
 260 265 270

Gly Ile Ala Arg Leu Glu Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro  
 275 280 285

Arg Glu Asn Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly  
 290 295 300

Ala Leu Lys Leu Leu  
 305

<210> 176  
 <211> 290  
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<400> 176

Met Asp Glu Ser Ala Lys Thr Leu Pro Pro Pro Cys Leu Cys Phe Cys  
 1 5 10 15

Ser Glu Lys Gly Glu Asp Met Lys Val Gly Tyr Asp Pro Ile Thr Pro  
 20 25 30

Gln Lys Glu Glu Gly Ala Trp Phe Gly Ile Cys Arg Asp Gly Arg Leu  
 35 40 45

Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Ser Ser Phe Thr Ala  
 50 55 60

Met Ser Leu Tyr Gln Leu Ala Ala Leu Gln Ala Asp Leu Met Asn Leu  
 65 70 75 80

Arg Met Glu Leu Gln Ser Tyr Arg Gly Ser Ala Thr Pro Ala Ala Ala  
 85 90 95

Gly Ala Pro Glu Leu Thr Ala Gly Val Lys Leu Leu Thr Pro Ala Ala  
 100 105 110

Pro Arg Pro His Asn Ser Ser Arg Gly His Arg Asn Arg Arg Ala Phe  
 115 120 125

Gln Gly Pro Glu Glu Thr Glu Gln Asp Val Asp Leu Ser Ala Pro Pro  
 130 135 140

Ala Pro Cys Leu Pro Gly Cys Arg His Ser Gln His Asp Asp Asn Gly  
 145 150 155 160

Met Asn Leu Arg Asn Arg Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser  
 165 170 175

Phe Lys Arg Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys Ile Val Val  
 180 185 190

Arg Gln Thr Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp  
 195 200 205

Pro Ile Phe Ala Met Gly His Val Ile Gln Arg Lys Lys Val His Val  
 210 215 220

Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn  
 225 230 235 240

Met Pro Lys Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala  
 245 250 255

Arg Leu Glu Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn  
 260 265 270

Ala Gln Ile Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys  
 275 280 285

Leu Leu  
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<210> 177  
 <211> 239  
 <212> PRT  
 <213> rat

<400> 177

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr  
 1 5 10 15

Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala  
 20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser  
35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Glu  
50 55 60

Gln Asp Val Asp Leu Ser Ala Thr Pro Ala Pro Ser Leu Pro Gly Asn  
65 70 75 80

Cys His Ala Ser His His Asp Glu Asn Gly Leu Asn Leu Arg Thr Ile  
85 90 95

Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Asn Thr Pro Thr Ile  
100 105 110

Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg  
115 120 125

Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr  
130 135 140

Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe  
145 150 155 160

Ala Met Gly His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp  
165 170 175

Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys  
180 185 190

Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu  
195 200 205

Glu Gly Asp Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile  
210 215 220

Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu  
225 230 235

<210> 178

<211> 220

<212> PRT



<213> rat

<400> 178

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr  
1 5 10 15

Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala  
20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser  
35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Glu  
50 55 60

Gln Asp Val Asp Leu Ser Ala Thr Pro Val Pro Ser Leu Pro Gly Asn  
65 70 75 80

Cys His Ala Ser His His Asp Glu Asn Gly Leu Asn Leu Arg Thr Arg  
85 90 95

Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala  
100 105 110

Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr Gly Tyr Phe  
115 120 125

Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly  
130 135 140

His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp Glu Leu Ser  
145 150 155 160

Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys Thr Leu Pro  
165 170 175

Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp  
180 185 190

Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn  
195 200 205

Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu

210

215

220

&lt;210&gt; 179

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; rat

&lt;400&gt; 179

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr  
1 5 10 15

Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala  
20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser  
35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Val  
50 55 60

Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Asn Thr Pro Thr Ile  
65 70 75 80

Arg Lys Gly Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg  
85 90 95

Gly Asn Ala Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr  
100 105 110

Gly Tyr Phe Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe  
115 120 125

Ala Met Gly His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp  
130 135 140

Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys  
145 150 155 160

Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu  
165 170 175

Glu Gly Asp Glu Val Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile  
180 185 190

Ser Arg Asn Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu  
 195 200 205

<210> 180  
 <211> 188  
 <212> PRT  
 <213> rat

<400> 180

Ala Val Gln Ala Asp Leu Met Ser Leu Arg Met Glu Leu Gln Ser Tyr  
 1 5 10 15

Arg Ser Ser Ala Thr Pro Ala Ala Pro Gly Ala Pro Gly Leu Ser Ala  
 20 25 30

Gly Val Lys Leu Pro Thr Pro Ala Ala Pro Gly Pro His Asn Ser Ser  
 35 40 45

Arg Gly Gln Arg Asn Arg Arg Ala Phe Gln Gly Pro Glu Glu Thr Gly  
 50 55 60

Thr Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Asn Ala  
 65 70 75 80

Leu Glu Glu Lys Glu Asn Lys Ile Val Val Arg Gln Thr Gly Tyr Phe  
 85 90 95

Phe Ile Tyr Ser Gln Val Leu Tyr Thr Asp Pro Ile Phe Ala Met Gly  
 100 105 110

His Val Ile Gln Arg Lys Lys Ile His Val Phe Gly Asp Glu Leu Ser  
 115 120 125

Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Lys Thr Leu Pro  
 130 135 140

Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp  
 145 150 155 160

Glu Ile Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Arg Asn  
 165 170 175

Gly Asp Asp Thr Phe Phe Gly Ala Leu Lys Leu Leu

180

185

<210> 181  
 <211> 243  
 <212> PRT  
 <213> monkey

<400> 181

Lys Asp Arg Lys Leu Leu Ala Ala Ala Leu Leu Leu Ala Leu Leu Ser  
 1 5 10 15

Cys Cys Leu Met Val Val Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly  
 20 25 30

Asp Leu Ala Ser Leu Arg Ala Glu Leu Gln Gly His His Ala Glu Lys  
 35 40 45

Leu Pro Ala Arg Ala Arg Ala Pro Lys Ala Gly Leu Gly Glu Ala Pro  
 50 55 60

Ala Val Thr Ala Gly Leu Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu  
 65 70 75 80

Gly Asn Ser Ser Gln Ser Ser Arg Asn Lys Arg Ala Ile Gln Gly Ala  
 85 90 95

Glu Glu Thr Val Ile Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu  
 100 105 110

Thr Pro Thr Ile Gln Lys Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu  
 115 120 125

Ser Phe Lys Arg Gly Ser Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu  
 130 135 140

Val Lys Glu Thr Gly Tyr Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr  
 145 150 155 160

Asp Lys Thr Tyr Ala Met Gly His Leu Ile Gln Arg Lys Lys Val His  
 165 170 175

Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln  
 180 185 190

Asn Met Pro Glu Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile  
 195 200 205

Ala Lys Leu Glu Glu Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu  
 210 215 220

Asn Ala Gln Ile Ser Leu Asp Gly Asp Val Thr Phe Phe Gly Ala Leu  
 225 230 235 240

Lys Leu Leu

<210> 182  
 <211> 219  
 <212> PRT  
 <213> monkey

<400> 182

Tyr Gln Val Ala Ala Val Gln Gly Asp Leu Ala Ser Leu Arg Ala Glu  
 1 5 10 15

Leu Gln Ser His His Ala Glu Lys Leu Pro Ala Arg Ala Arg Ala Pro  
 20 25 30

Lys Ala Gly Leu Gly Glu Ala Pro Ala Val Thr Ala Gly Leu Lys Ile  
 35 40 45

Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Ser Ser Arg  
 50 55 60

Asn Lys Arg Ala Ile Gln Gly Ala Glu Glu Thr Val Ile Gln Asp Cys  
 65 70 75 80

Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys Gly Ser  
 85 90 95

Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser Ala Leu  
 100 105 110

Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr Phe Phe  
 115 120 125

Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met Gly His

130

135

140

Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu Ser Leu  
 145 150 155 160

Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu Pro Asn  
 165 170 175

Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly Asp Glu  
 180 185 190

Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu Asp Gly  
 195 200 205

Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu  
 210 215

<210> 183  
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<220>  
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<400> 183

Asp Tyr Lys Asp Asp Asp Asp Lys  
 1 5

<210> 184  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> consensus BLYS binding polypeptide

<400> 184

Ala Asn Trp Tyr Asp Ser Leu Thr Lys Leu Trp Leu Pro Asp  
 1 5 10

<210> 185  
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42

<210> 186

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BlyS binding polypeptide

<400> 186

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp  
1 5 10

<210> 187

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BlyS binding polypeptide

<400> 187

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu  
1 5 10

<210> 188  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 188

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gly  
1 5 10

<210> 189  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 189

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val  
1 5 10

<210> 190  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 190

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ser Asp  
1 5 10

<210> 191  
<211> 14  
<212> PRT  
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<223> BLYS binding polypeptide

<400> 191

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Asn Asp  
1 5 10



<210> 192  
<211> 14  
<212> PRT  
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<220>  
<223> BLYS binding polypeptide

<400> 192

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Thr  
1 5 10

<210> 193  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 193

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ala  
1 5 10

<210> 194  
<211> 14  
<212> PRT  
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<223> BLYS binding polypeptide

<400> 194

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asn  
1 5 10

<210> 195  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 195

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Val Asp  
1 5 10

<210> 196

<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 196

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Asp  
1 5 10

<210> 197  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 197

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr Asp  
1 5 10

<210> 198  
<211> 14  
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<400> 198

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro His  
1 5 10

<210> 199  
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<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 199

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr Val  
1 5 10

<210> 200  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 200

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Asp  
1 5 10

<210> 201  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 201

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Glu  
1 5 10

<210> 202  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 202

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Glu  
1 5 10

<210> 203  
<211> 14  
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<400> 203

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Arg  
1 5 10

<210> 204  
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<400> 204

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ala Asp  
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<210> 205

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Tyr  
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<210> 206

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLyS binding polypeptide

<400> 206

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ile  
1 5 10

<210> 207

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLyS binding polypeptide

<400> 207

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ile Asp  
1 5 10

<210> 208

<211> 14

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Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Asp  
1 5 10

<210> 209

<211> 14

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<400> 209

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp  
1 5 10

<210> 210

<211> 14

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<223> BLyS binding polypeptide

<400> 210

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Glu  
1 5 10

<210> 211

<211> 14

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<223> BLyS binding polypeptide

<400> 211

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Val  
1 5 10

<210> 212

<211> 14

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<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide  
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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu  
1 5 10

<210> 213  
<211> 14  
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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val  
1 5 10

<210> 214  
<211> 14  
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<400> 214

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Gln  
1 5 10

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Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ala  
1 5 10

<210> 216  
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<223> BLyS binding polypeptide

<400> 216

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Val  
1 5 10

<210> 217

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLyS binding polypeptide

<400> 217

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gly  
1 5 10

<210> 218

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLyS binding polypeptide

<400> 218

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Tyr  
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<210> 219

<211> 14

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<400> 219

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Tyr  
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<210> 220

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLyS binding polypeptide

<400> 220

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Tyr  
1 5 10

<210> 221

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLYS binding polypeptide

<400> 221

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Asp  
1 5 10

<210> 222

<211> 14

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<213> Artificial Sequence

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<223> BLYS binding polypeptide

<400> 222

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val  
1 5 10

<210> 223

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 223

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Gly  
1 5 10

<210> 224

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLYS binding polypeptide



<400> 224

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Thr His  
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<210> 225

<211> 14

<212> PRT

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<400> 225

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Thr  
1 5 10

<210> 226

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> BLYS binding polypeptide

<400> 226

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Leu Val  
1 5 10

<210> 227

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 227

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Tyr Tyr  
1 5 10

<210> 228

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> BLYS binding polypeptide

<400> 228

Ala Tyr Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Ser Asp  
1 5 10

<210> 229  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 229

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ala  
1 5 10

<210> 230  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 230

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu His Asp  
1 5 10

<210> 231  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 231

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gly  
1 5 10

<210> 232  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 232

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Gln  
1 5 10

<210> 233  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 233

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Tyr  
1 5 10

<210> 234  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 234

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro His  
1 5 10

<210> 235  
<211> 14  
<212> PRT  
<213> Artificial Sequence

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<223> BLYS binding polypeptide

<400> 235

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Val  
1 5 10

<210> 236  
<211> 14  
<212> PRT  
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<400> 236

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Ile

1 5 10

<210> 237  
<211> 14  
<212> PRT  
<213> Artificial Sequence

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<223> BLYS binding polypeptide

<400> 237

Ala Ser Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Glu  
1 5 10

<210> 238  
<211> 14  
<212> PRT  
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<220>  
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<400> 238

Ala Phe Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Arg Val  
1 5 10

<210> 239  
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Lys

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Lys

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Lys

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Lys

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Lys

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Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln  
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Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu  
35 40 45

Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
50 55 60

Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
85 90 95

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu  
100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His  
115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg  
130 135 140

Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg  
145 150 155 160

Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala  
165 170 175

Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser  
180 185 190

Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu  
195 200 205

Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro  
210 215 220

Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys  
225 230 235 240

Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp  
245 250 255

Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser  
260 265 270

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser His  
275 280 285

Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser  
290 295 300



Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val Cys Lys Asn Tyr Ala  
 305 310 315 320

Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg  
 325 330 335

Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr  
 340 345 350

Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu  
 355 360 365

Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro  
 370 375 380

Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu  
 385 390 395 400

Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro  
 405 410 415

Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys  
 420 425 430

Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys  
 435 440 445

Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His  
 450 455 460

Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser  
 465 470 475 480

Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr  
 485 490 495

Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp  
 500 505 510

Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala  
 515 520 525

Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu  
530 535 540

Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
545 550 555 560

Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val  
565 570 575

Ala Ala Ser Gln Ala Ala Leu Gly Leu  
580 585

<210> 446  
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<212> PRT  
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<220>  
<223> recurring structural motif of BLYS binding polypeptides

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X is Pro, Ser, Thr, Phe, Leu, Tyr, Cys, or Ala

<400> 446

Asp Xaa Leu Thr  
1

<210> 447  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X2 is any amino acid except Arg;

<220>  
<221> MISC\_FEATURE  
<222> (3)..(3)  
<223> X3 is Trp, Glu, Lys, Cys, Leu, Ala, Arg, Gly, or Ser;

<220>

<221> MISC\_FEATURE  
 <222> (4)..(4)  
 <223> X4 is Tyr, Phe, Glu, Cys, Asn;

<220>  
 <221> MISC\_FEATURE  
 <222> (6)..(6)  
 <223> X6 is Pro, Ser, Thr, Phe, Leu, Tyr, Cys, or Ala;

<220>  
 <221> MISC\_FEATURE  
 <222> (9)..(9)  
 <223> X9 is Lys, Asn, Gln, Gly, or Arg;

<220>  
 <221> MISC\_FEATURE  
 <222> (11)..(11)  
 <223> X11 is Trp, Ser, Thr, Arg, Cys, Tyr, or Lys;

<220>  
 <221> MISC\_FEATURE  
 <222> (12)..(12)  
 <223> X12 is Leu, Phe, Val, Ile, or His;

<220>  
 <221> MISC\_FEATURE  
 <222> (13)..(13)  
 <223> X13 is Pro, Leu, His, Ser, Arg, Asn, Gln, Thr, Val, Ala, Cys, Ile, Phe, or Tyr;

<220>  
 <221> MISC\_FEATURE  
 <222> (14)..(14)  
 <223> X14 is Asp, Glu, Asn, Val, His, Gln, Arg, Gly, Ser, Tyr, Ala, Cys, Lys, Ile, Thr or Leu.

<400> 447

Ala Xaa Xaa Xaa Asp Xaa Leu Thr Xaa Leu Xaa Xaa Xaa Xaa  
 1 5 10

<210> 448  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BLyS binding polypeptide

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(1)  
 <223> X1 is Trp, Glu, Lys, Cys, Leu, Ala, Arg, Gly, or Ser;

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(2)  
 <223> X2 is Tyr, Phe, Glu, Cys, Asn;

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(4)  
 <223> X4 is Pro, Ser, Thr, Phe, Leu, Tyr, Cys, or Ala;

<220>  
 <221> MISC\_FEATURE  
 <222> (7)..(7)  
 <223> X7 is Lys, Asn, Gln, Gly, or Arg;

<220>  
 <221> MISC\_FEATURE  
 <222> (9)..(9)  
 <223> X9 is Trp, Ser, Thr, Arg, Cys, Tyr, or Lys;

<220>  
 <221> MISC\_FEATURE  
 <222> (10)..(10)  
 <223> X10 is Leu, Phe, Val, Ile, or His.

<400> 448

Xaa Xaa Asp Xaa Leu Thr Xaa Leu Xaa Xaa  
 1 5 10

<210> 449  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> BLyS affinity maturation library template

<220>  
 <221> MISC\_FEATURE  
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 <223> X is any amino acid;

<220>

<221> MISC\_FEATURE  
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<223> X is any amino acid;

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> X is any amino acid;

<220>  
<221> MISC\_FEATURE  
<222> (11)..(14)  
<223> X is any amino acid;

<400> 449

Ala Xaa Xaa Xaa Asp Xaa Leu Thr Xaa Leu Xaa Xaa Xaa Xaa  
1 5 10

<210> 450  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 450

Ala Gly Lys Glu Pro Cys Tyr Phe Tyr Trp Glu Cys Ala Val Ser Gly  
1 5 10 15

<210> 451  
<211> 17  
<212> PRT  
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<220>  
<223> BLyS binding polypeptide

<400> 451

Ala Gly Val Pro Phe Cys Asp Leu Leu Thr Lys His Cys Phe Glu Ala  
1 5 10 15

Gly

<210> 452  
<211> 20

<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 452

Gly Ser Ser Arg Leu Cys His Met Asp Glu Leu Thr His Val Cys Val  
1 5 10 15

His Phe Ala Pro  
20

<210> 453  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLYS binding polypeptide

<400> 453

Gly Asp Gly Gly Asn Cys Tyr Thr Asp Ser Leu Thr Lys Leu His Phe  
1 5 10 15

Cys Met Gly Asp Glu  
20

<210> 454  
<211> 14  
<212> PRT  
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<220>  
<223> BLYS binding polypeptide

<400> 454

Gly Tyr Asp Val Leu Thr Lys Leu Tyr Phe Val Pro Gly Gly  
1 5 10

<210> 455  
<211> 14  
<212> PRT  
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<220>  
<223> BLYS binding polypeptide

<400> 455

Trp Thr Asp Ser Leu Thr Gly Leu Trp Phe Pro Asp Gly Gly  
1 5 10

<210> 456  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 456

Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu Pro Asp  
1 5 10

<210> 457  
<211> 10  
<212> PRT  
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<220>  
<223> BLyS binding polypeptide

<400> 457

Trp Tyr Asp Pro Leu Thr Lys Leu Trp Leu  
1 5 10

<210> 458  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> BLyS binding polypeptide

<400> 458

Ala Asn Trp Tyr Asp Pro Leu Thr Lys Leu Ser Leu Pro Asp  
1 5 10